

Brief Information

Dr Pankaj Kumar

Assistant Professor and In-Charge
Genetics and Plant Breeding
College of Hill Agriculture, Chirbatiya
Campus Ranichauri, Tehri Garhwal-249199
Uttarakhand

Academic Background:

1. High school from Uttarakhand Board, in 2003
2. Intermediate from Uttarakhand Board, in 2005
3. Graduation from Kumaun University, in 2008
4. Post Graduation in Genetics and Plant Breeding, from GBPUAT, Pantnagar in 2011
5. Doctor of philosophy in Genetics and Plant Breeding, from GBPUAT, Pantnagar in 2015
6. ASRB (ICAR), NET in Genetics and Plant Breeding, in 2014

Research Interest:

- ✓ Exploration, collection, characterization and identification of diverse climate resilient and nutrient rich genotypes of small millets and potential Underutilized crops
- ✓ Developing new varieties of small millets and potential crops through conventional and molecular breeding methods

Research:

- ✓ Co-PI in All India Coordinated Research Network on Potential Crops and All India Coordinated Research Project on Small Millets
- ✓ In-charge of conducting State Varietal Trials of different *Rabi* and *Kharif* hilly crops
- ✓ Guided 10 Post Graduate students as a Co-advisor and Four as a Major Advisor of Seed Science and Technology and Genetics and Plant Breeding departments

Additional Charges:

- ✓ In-charge Genetics and Plant Breeding at CoHA, VCSG UHF
- ✓ In-charge Seed Science and technology at CoHA, VCSG UHF
- ✓ In-charge sports at College of Hill Agriculture (CoHA), VCSG UHF
- ✓ Associate Exam Co-ordinator (Internal and External examination) of College of Forestry, and College of Hill Agriculture

Publications:

Research Papers	38
Review Papers	05
Short Articles	18
Book Chapters	08
Books	01
Manuals	02
News Letter	03
Abstracts	12
Pamphlets	11

Awards:

- ✓ UGC Rajiv Gandhi National Fellowship Award
- ✓ 04 Young Scientist Awards
- ✓ 01 Young Achiever Award
- ✓ 01 Excellence in Teaching Award

Experience:

- ✓ More than 10 years experience in Teaching Research and Extension

Recent Publications:

- ✓ **Kumar, P.**, Magadum, S., Singh, N., Vashishtha, R.K., Kumar, D., Chaudhary, S., Ravi, S. and Singh, P. 2025. Breakthrough and Benefits of Somatic Hybridization in Plants: A Review. *Eco. Env. Cons.* 31: 178-183. DOI: <http://doi.org/10.53550/EEC.2025.v31i02s.029>.
- ✓ Rawat, L., Dhuliya, N., **Kumar, P.**, Chaudhary, S., Shivani, Kumar, N.P., Deorari, M., Rawat, D., Pal, S., Bhadala, R.K. and Tariyal, A. 2025. Evaluation of barnyard millet germplasm for morphometric characterization, genetic diversity and screening against important endemic diseases in hills of Uttarakhand. *AMA, Agric. Mech. Asia Afri. Latin Am.* 56(1): 20037-61. DOI: 01.13409/Ama.29.01.2025.01.
- ✓ Thakur, A., Paliwal, A., Kumar, A. and **Kumar, P.** 2025. Lentil behavior following foliar nano particle application: implications for plant growth and development. *Proc. Indian Nat. Sci. Acad.* <https://doi.org/10.1007/s43538-025-00453-8>.
- ✓ Rayeen, S., Paliwal, A., Kumar, A., **Kumar, P.**, Deorari, M. and Sharma, D. 2025. Rediscovering Buckwheat: A Review on its Restorative Capacities. *J. Agri. Horti. Res.* 8(1): 01-07.
- ✓ Perveen, N., Pachauri, E., Bhavani, Ahmad, A., **Kumar, P.**, Singh, J., Kumari, P., Sinha, D., Singh, A.K. and Kashyap, S. 2026. Breeding for Climate Resilience: Genetic Strategies for Developing Drought and Heat Tolerant Crops. *Plant Sci. Arch.* 11(1):1-21. DOI: <https://doi.org/10.51470/PSA.2026.11.1.01>